



The Standard

ENGINE LOG

ASHES-1

Make Textron Lycoming

Model

Model IO-540-K1G5D

Type Certificate

Serial# L-20794-48E

INSTALLED IN N24MT

Oil Grade: Summer

Winter

Magneto Time

Point Setting

Firing Order

Spark Plug Gap

Manufacturer's Recommended Overhaul at

hours

| YEAR 20____ DATE | RECORDING TACH TIME | TODAY'S FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |
|------------------------|---------------------------|-------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | <div style="float: right; border: 1px solid black; padding: 5px; width: fit-content;"> Make: Textron Lycoming Model: IO-540-K1G5D Serial# L-20794-48E Date: 9/19/2017 Tach Time: _____ Total Time _____ </div> <div style="clear: both;"></div> <p>Jewell Aviation Inc. 418 Airport Rd. P.O. Box 623 Kennett, MO 63857 573-888-5846 www.jewellaviation.com</p> <p>On this date received engine for prop strike teardown inspection and disassembled in accordance with Lycoming Service Bulletin 533C dated 10/18/2016, see attached checklist. Disassembled engine and cleaned all parts for inspection. Performed dial run-out and magnaflux inspection on crankshaft, it was found to be within serviceable limits with no cracks. Crankcase was dye penetrant inspected and steel parts inspected using magnetic particle inspection. Reassembled engine I/A/W SB240W dated 2/23/2012, using new main and connecting rod bearings, connecting rod bolts and nuts, crankshaft counterweight bushings, rollers, plates and snap rings, crankshaft gear bolt and lock plate. Roller Tappets were replaced I/A/W SB533C. Crankshaft Counterweights were certified</p> |

[illegible]

12-5-17

N24MT S/N 32R 7780523

Tach 4792.3

Reinstalled engine using new mount bolts and nuts, new engine baffling, repaired muffler heat muff, new exhaust gaskets. Replaced alternator, air-conditioner belts with new. Serviced engine with 12 qts Aero Shell 50 M oil. Engine ground ran leak checked, all temps and pressures were normal. AD 2005-12-16 complied with mag O/H 7-19-15 Tach 4745.4 due 5245.4, AD 2015-12-06 fuel injection lines inspection, no defects noted at this time. I certify that this engine has been inspected in accordance with an Annual Inspection and was determined to be in an airworthy condition.

Charles L Troutman 2015770 A&P, IA

Cuts and Alterations

nd Certificate Number of Technician or
fic entries.)

YEAR
20
DATE

RECORDING TACH TIME

TODAY'S FLIGHT

**TOTAL
TIME IN
SERVICE**

Description of Inspections, Tests, Repairs and Alterations

Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

12/27/2017
Hobbs 5405.7
Tach 4797.4

Flow divider P/N 2524323-2 fuel servo P/N 2524273-12 removed for overhaul and repair by Aircraft Accessories of Oklahoma. Reinstalled, leak checked, ops checked. Aircraft returned to service

service



Charles L Troutman 2015770 AP

| YEAR 20____ DATE | RECORDING TACH TIME | TODAY'S FLIGHT | TOTAL TIME IN SERVICE | Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.) |
|------------------------|---------------------------|-------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | |

Xpress Aircraft Maintenance 2701 Spence Place, Knoxville TN 37920

N24MT Engine Entry

Date 4/14/2020

TTSN: 4806.9

Tach: 4847.2

Lycoming IO-540-K1G5D S/N L-20794-48E

TSO: 852.3

Hobbs: 5459.5

C/W 100hr/Annual Inspection IAW FAR 43.D. C/W Compression check, #1 77/80; #2 76/80; #3 71/80; #4 78/80; #5 75/80; #6 72/80. Drained oil. Removed, cut and inspected oil filter. No defects noted. Installed new Tempest oil filter P/N AA48103-2 and serviced sump with 11 quarts AS100W. Serviced spark plugs. Check mag time to engine. Serviced fuel injectors. Serviced oil sump finger screen. R/R crankshaft seal with new P/N 78443. Ground ran. Operational and leak checks good.

I CERTIFY THIS ENGINE IS IN AIRWORTHY CONDITION IN REGARDS TO WORK PERFORMED AND IS APPROVED FOR RETURN TO SERVICE.

Ryan Adam Bratcher A&P 3349981 IA



N24MT Engine Entry

Tach: 4997

Hobbs: 5620

Ryan Adam Bratcher A&P 3349981 IA

Ry. Ak. Btd

RECORD TACH TIME

Engine • page 1 of 1

May 24, 2023

- Ryan Adam Bratcher A&P IA 3349981**

By the Court

YEAR
20____
DATE

wo: D23283

Engine - page 1 of 1



Xpress Aircraft Maintenance, LLC - 2701 Spence Place - Knoxville, TN 37920 - 865-850-8215

N24MT
TACH: 5039.0

LYCOMING, IO-540-K1G5D, S/N: L-20704-48E

September 11, 2023

1. Drained oil. Removed, cut and inspected filter. No discrepancies found. Installed new filter and serviced sump with new oil. Installed P/N AA48103-2 - OIL FILTER, Installed (11) P/N ASW100 - OIL.
2. R&R Vacuum pump gasket. Installed P/N 8313 - GASKET VAC PUMP, Installed P/N MS35769-10 - GASKET.

With respect to the work performed, this engine is approved for return to service.

Ryan Adam Bratcher A&P IA 3349981

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er of Technician or

YEAR
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DATE

RECORD
TACH
TIME

wo: D24175

Engine - page 1 of 1



Xpress Aircraft Maintenance, LLC - 2701 Spence Place - Knoxville, TN 37920 - 865-850-8215

N24MT
TACH: 5077.5

LYCOMING, IO-540-K1G5D, S/N: L-20704-48E

June 11, 2024

1. C/W Engine 100hr Inspection IAW FAR 43.D.
2. Compression Check 1. 76/80 2. 78/80 3. 75/80 4. 76/80 5. 76/80 6. 75/80.
3. Ground ran engine to warm oil. Drained oil and collected sample. Removed, cut and inspected oil filter, no discrepancies found. Serviced sump with new oil and installed new oil filter. Leak check good. Installed P/N AA48103-2 - OIL FILTER, Installed (11) P/N ASW100 - OIL.
4. R, C, & I Spark Plugs. No Discrepancies Found. Gapped Plugs As Needed. Installed (12) P/N U674 - Spark plug gasket.
5. Verified magneto to engine timing. Adjusted as needed.
6. Serviced fuel injectors.
7. Torqued rocker box covers.
8. R&R #2, 4 & 6 EGT Probe w/new. Installed (3) P/N 2870 - Insight EGT Probe.

With respect to the work performed, this ENGINE is approved for return to service.

Ryan Adam Bratcher A&P IA 3349981

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YEAR
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RECO
TACH
TIME

wo: D25203

Engine · page 1 of 1

Technician or



Xpress Aircraft Maintenance, LLC · 2701 Spence Place · Knoxville, TN 37920 · 865-850-8215

N24MT
TACH: 5103.1

LYCOMING, IO-540-K1G5D, S/N: L-20704-48E

August 14, 2025

1. C/W Engine 100Hr Inspection IAW FAR 43.D. All ADs complied with, verified by Biweekly check 2025-16. See AD compliance list for details.
2. C/W Preformed Compression Test #1.) 74/80 #2.) 72/80 #3.) 76/80 #4.) 76/80 #5.) 76/80 #6.) 78/80.
3. Ground ran engine to warm oil. Drained oil and collected sample. Removed cut & inspected oil filter, no discrepancies found. Serviced sump with new oil & installed new filter. Installed P/N AA48103-2 - OIL FILTER, Installed (11) P/N ASW100 - OIL.
4. R, C, & I spark plugs. No discrepancies found. Gapped plugs as needed. Installed (6) P/N U674 - Spark plug gasket, Installed (12) P/N U674 - Spark plug gasket.
5. Preformed engine to magneto timing. Adjusted as needed.
6. Serviced fuel injectors.
7. Check and torqued rocker cover boxes.
8. C/W 2011-15-10 by Visual Inspection, no defects noted.
9. C/W 2015-19-07 by Visual Inspection, no defects noted. 10. C/W AD 76-07-12 by functional check, no defects noted.

All Work Performed in Reference with Applicable Maintenance Manuals. With respect to the work performed, this ENGINE is approved for return to service.

Ryan Adam Bratcher A&P IA 3349981